

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
1 April 2004 (01.04.2004)

PCT

(10) International Publication Number  
**WO 2004/026337 A1**

(51) International Patent Classification<sup>7</sup>: **A61K 39/00**,  
39/39, C07K 14/47, A61P 35/00, C12N 15/12, 15/63,  
15/863, 5/06

Ewert House, Ewert Place, Summertown, Oxford OX2  
7SG (GB).

(21) International Application Number:  
PCT/GB2003/003977

(74) Agents: LEE, Nicholas, John et al.; Kilburn & Strode, 20  
Red Lion Street, London WC1R 4PJ (GB).

(22) International Filing Date:  
16 September 2003 (16.09.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,  
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0221574.7 17 September 2002 (17.09.2002) GB

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **ISIS IN-  
NOVATION LIMITED** [GB/GB]; Ewert House, Ewert  
Place, Summertown, Oxford OX2 7BZ (GB).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **CERUNDOLO**,  
**Vincenzo** [IT/GB]; Ewert House, Ewert Place, Summer-  
town, Oxford OX2 7SG (GB). **HERMANS, Ian, Francis**  
[NZ/GB]; Ewert House, Ewert Place, Summertown, Ox-  
ford OX2 7SG (GB). **PALMOWSKI, Michael, Joachim**  
[DE/GB]; Ewert House, Ewert Place, Summertown,  
Oxford OX2 7SG (GB). **HARRIS, Adrian, Lewellyn**  
[GB/GB]; Ewert House, Ewert Place, Summertown,  
Oxford OX2 7SG (GB). **CHENG, Tsung, Wen** [SG/GB];

Published:

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: **COMBINATION TREATMENT OF CANCER USING A CANCER VACCINE AND A CHEMOTHERAPEUTIC  
DRUG**

(57) Abstract: The invention is a method of treating a patient suffering from cancer. In the method, an agent for stimulating an immune response against the cancer and a chemotherapeutic drug are administered to the patient. The drug is administered in a metronomic schedule to prevent it suppressing immune response and the effectiveness of the agent for stimulating an immune response against the cancer.

WO 2004/026337 A1